Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Original) A computer system, comprising;

a memory space having a number of memory locations;

an operating system located within a system space, the system space corresponding to a first subset of the number of memory locations of the memory space;

a software module located within a user space, the user space corresponding to a second subset of the number of memory locations of the memory space;

a plurality of operating system data structures located in the system space;

a system page located within the system space and corresponding to a portion of the first subset of the number of memory locations, the system page including a subset of the plurality of operating system data structures; and

a function located within the software module;

wherein the function may not be linked to the first subset of the number of memory locations except for the subset of the plurality of operating system data structures.

2. (Original) The system of claim 1, further comprising:

a task, the task assigned to execute the function and having a memory map indicating access to the user space and access to the system page.

3. (Original) The system of claim 2, wherein the memory map includes access indicators of read-only access to the system page.

4. (Original) The system of claim 2, wherein the portion of the first subset of the number of memory locations that corresponds to the system page are associated with access indicators of read-only access by user tasks.

5. (Original) The system of claim 1, wherein the portion of the first subset of the number of memory locations that corresponds to the system page is contiguous.

6. (Original) The system of claim 1, wherein the portion of the first subset of the number of memory locations that corresponds to the system page is page-aligned.

7. (Original) The system of claim 1, wherein the subset of the plurality of operating system data structures includes an identifier of a currently executing task.

8. (Original) The system of claim 1, wherein the subset of the plurality of operating system data structures includes a timer.

9. (Original) The system of claim 1, where in the subset of the plurality of operating system data structures includes a counter indicating a current level of interrupt nesting.

10. (Original) The system of claim 1, wherein the subset of the plurality of operating system data structures includes a pointer to a task memory block.

11. (Original) The system of claim 1, wherein the operating system is a real-time operating system.

Claims 12 - 22 (Canceled).

23. (Original) A method, comprising:

retrieving a software module having a symbol reference, the symbol reference used by an instruction;

resolving the symbol reference, including:

searching an operating system symbol table for a symbol entry corresponding to the symbol reference,

checking the symbol entry corresponding to the symbol reference for an indication that the symbol corresponds to a system page data structure,

obtaining a symbol value for the symbol from the symbol entry when the indication is present; and

inserting the symbol value into the instruction.

24. (Original) The method of claim 23, further comprising:

leaving the symbol reference unresolved when the symbol entry corresponding to the symbol reference does not include the indication that the symbol corresponds to a system page data structure.

25. (Original) The method of claim 23, further comprising:

loading the software module into a memory space.

26. (Original) The method of claim 23, further comprising:

generating an error message when the symbol entry corresponding to the symbol reference does not include the indication that the symbol corresponds to a system page data structure.

27. (Original) The method of claim 23, wherein the system page data structure is part of a system page located within a system memory space.